BIOTECHNOLOGY SYSTEMS BRANCH

0590

RAW SEQUÊNCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/067, 122A
Source:	3910
Date Processed by STIC:	7/19/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to:
 - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



Does Not Comply Corrected Diskette Needed

OIPE

RAW SEQUENCE LISTING PATENT APPLICATION: US/10/067,122A

DATE: 07/19/2002 See p. 6 for TIME: 14:11:12 Explanation of error

Input Set : A:\iu-0008.ST25.txt

3 <110> APPLICANT: Kwon, Byoung S

Output Set: N:\CRF3\07192002\J067122A.raw

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5 <120> TITLE OF INVENTION: Antibody for 4-1BB
     7 <130> FILE REFERENCE: 740.009US2 (IU-0008)
     9 <140> CURRENT APPLICATION NUMBER: US 10/067,122A
    10 <141> CURRENT FILING DATE: 2002-02-04
    12 <150> PRIOR APPLICATION NUMBER: US 08/012,269
    13 <151> PRIOR FILING DATE: 1993-02-01
    15 <150> PRIOR APPLICATION NUMBER: US 07/922,996
    16 <151> PRIOR FILING DATE: 1992-07-30
    18 <150> PRIOR APPLICATION NUMBER: US 07/267,577
    19 <151> PRIOR FILING DATE: 1988-11-07
    21 <160> NUMBER OF SEQ ID NOS: 13
    23 <170> SOFTWARE: PatentIn version 3.1
    25 <210> SEO ID NO: 1
    26 <211> LENGTH: 2350
    27 <212> TYPE: DNA
    28 <213> ORGANISM: Mus musculus
    30 <220> FEATURE:
    31 <221> NAME/KEY: misc_feature
    32 <222> LOCATION: (1253)..(1255)
    33 <223> OTHER INFORMATION: n=a, c, g, or t
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    39 ctacaccagg aaaaggacac attcgacaac aggaaaggag cctgtcacag aaaaccacag
                                                                              120
    41 tgtcctgtgc atgtgacatt tcgccatggg aaacaactgt tacaacgtgg tggtcattgt
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    43 gctgctgcta gtgggctgtg agaaggtggg agccgtgcag aactcctgtg ataactgtca
                                                                              240
                                                                              300
    45 gcctggtact ttctgcagaa aatacaatcc agtctgcaag agctgccctc caagtacctt
    47 ctccagcata ggtggacagc cgaactgtaa catctgcaga gtgtgtgcag gctatttcag
                                                                              360
    49 gttcaagaag ttttgctcct ctacccacaa cgcggagtgt gagtgcattg aaggattcca
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    51 ttgcttgggg ccacagtgca ccagatgtga aaaggactgc aggcctggcc aggagctaac
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     53 gaagcagggt tgcaaaacct gtagcttggg aacatttaat gaccagaacg gtactggcgt
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     55 ctgtcgaccc tggacgaact gctctctaga cggaaggtct gtgcttaaga ccgggaccac
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     71 cctagatgat gtgtgggcgc gcacctcatc caagtctctt ctaacgctaa catatttgtc
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RAW SEQUENCE LISTING DATE: 07/19/2002 PATENT APPLICATION: US/10/067,122A TIME: 14:11:12

Input Set : A:\iu-0008.ST25.txt

Output Set: N:\CRF3\07192002\J067122A.raw

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                                                                       1440
83 tqatacqtaq tatactqtat atqtqtatqt atatqtatat qtatatata qactctttta
85 ctgtcaaagt caacctagag tgtctggtta ccaggtcaat tttattggac attttacgtc
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87 acacacaca acacacaca acacacagt ttatactacg tactgttatc ggtattctac
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89 gtcatataat gggatagggt aaaaggaaac caaagagtga gtgatattat tgtggaggtg
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91 acagactacc ccttctgggt acgtagggac agacctcctt cggactgtct aaaactcccc
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93 ttagaagtct cgtcaagttc ccggacgaag aggacagagg agacacagtc cgaaaagtta
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95 tttttccqqc aaatcctttc cctqtttcqt gacactccac cccttqtgga cacttgagtg
97 tcatccttgc gccggaaggt caggtggtac ccgtctgtag gggcggggag acagagccgc
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107 ctttcgtaaa cggttcttac aaaagtaatt agttcttgct ttcagcctcc aagcttctgc
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109 tagtctatgg cagcatcaag gctggtattt gctacggctg accgctacgc cgccgcaata
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111 agggtactgg gcggcccgtc gaaggccctt tggtttcaga aacccaaggc cccctcata
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119 <211> LENGTH: 256
120 <212> TYPE: PRT
121 <213> ORGANISM: Mus musculus
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133 Pro Gly Thr Phe Cys Arg Lys Tyr Asn Pro Val Cys Lys Ser Cys Pro
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137 Pro Ser Thr Phe Ser Ser Ile Gly Gly Gln Pro Asn Cys Asn Ile Cys
141 Arg Val Cys Ala Gly Tyr Phe Arg Phe Lys Lys Phe Cys Ser Ser Thr
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142 65
145 His Asn Ala Glu Cys Glu Cys Ile Glu Gly Phe His Cys Leu Gly Pro
149 Gln Cys Thr Arg Cys Glu Lys Asp Cys Arg Pro Gly Gln Glu Leu Thr
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153 Lys Gln Gly Cys Lys Thr Cys Ser Leu Gly Thr Phe Asn Asp Gln Asn
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157 Gly Thr Gly Val Cys Arg Pro Trp Thr Asn Cys Ser Leu Asp Gly Arg
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161 Ser Val Leu Lys Thr Gly Thr Thr Glu Lys Asp Val Val Cys Gly Pro
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165 Pro Val Val Ser Phe Ser Pro Ser Thr Thr Ile Ser Val Thr Pro Glu
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                    165
169 Gly Gly Pro Gly Gly His Ser Leu Gln Val Leu Thr Leu Phe Leu Ala
                                    185
                180
173 Leu Thr Ser Ala Leu Leu Leu Ala Leu Ile Phe Ile Thr Leu Leu Phe
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DATE: 07/19/2002

TIME: 14:11:12

Input Set : A:\iu-0008.ST25.txt Output Set: N:\CRF3\07192002\J067122A.raw 195 200 177 Ser Val Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys Gln 215 220 210 181 Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Asp Ala Cys Ser 235 230 185 Cys Arg Cys Pro Gln Glu Glu Glu Gly Gly Gly Gly Tyr Glu Leu 250 189 <210> SEQ ID NO: 3 190 <211> LENGTH: 24 191 <212> TYPE: PRT 192 <213> ORGANISM: Mus musculus 194 <400> SEQUENCE: 3 196 Cys Arg Val Cys Ala Gly Tyr Phe Arg Phe Lys Lys Phe Cys Ser Ser 197 1 200 Thr His Asn Ala Glu Cys Glu Cys 201 20 204 <210> SEQ ID NO: 4 205 <211> LENGTH: 22 206 <212> TYPE: PRT 207 <213> ORGANISM: Drosophila 209 <400> SEQUENCE: 4 211 Cys Pro Val Cys Phe Asp Tyr Val Ile Leu Gln Cys Ser Ser Gly His 212 1 5 215 Leu Val Cys Val Ser Cys 216 20 219 <210> SEQ ID NO: 5 220 <211> LENGTH: 26 221 <212> TYPE: PRT 222 <213> ORGANISM: Dictyostelium 224 <400> SEQUENCE: 5 226 Cys Pro Ile Cys Phe Glu Phe Ile Tyr Lys Lys Gln Ile Tyr Gln Cys 230 Lys Ser Gly His His Ala Cys Lys Glu Cys 234 <210> SEQ ID NO: 6 235 <211> LENGTH: 6 236 <212> TYPE: PRT 237 <213> ORGANISM: Mus musculus 239 <220> FEATURE: 240 <221> NAME/KEY: MISC_FEATURE 241 <222> LOCATION: (5)..(5) 242 <223> OTHER INFORMATION: X=any amino acid 245 <400> SEQUENCE: 6 W--> 247 Val Gln Asn Ser Xaa Asp 248 1 251 <210> SEQ ID NO: 7 252 <211> LENGTH: 12 253 <212> TYPE: PRT C--> 254 <213> ORGANISM: Artificial

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/067,122A

DATE: 07/19/2002

TIME: 14:11:12

Input Set : A:\iu-0008.ST25.txt Output Set: N:\CRF3\07192002\J067122A.raw W--> 256 <220> FEATURE: W--> 256 <223> OTHER INFORMATION: 256 <400> SEQUENCE: 7 258 Cys Arg Pro Gly Gln Glu Leu Thr Lys Ser Gly Tyr 259 1 5 262 <210> SEQ ID NO: 8 263 <211> LENGTH: 24 264 <212> TYPE: PRT C--> 265 <213> ORGANISM: artificial 267 <220> FEATURE: 268 <221> NAME/KEY: MISC_FEATURE 269 <222> LOCATION: (2)..(3) 270 <223> OTHER INFORMATION: X=any amino acid 273 <220> FEATURE: 274 <221> NAME/KEY: MISC_FEATURE 275 <222> LOCATION: (5)..(13) 276 <223> OTHER INFORMATION: X=any amino acid 279 <220> FEATURE: 280 <221> NAME/KEY: MISC_FEATURE 281 <222> LOCATION: (15)..(17) 282 <223> OTHER INFORMATION: X=any amino acid 285 <220> FEATURE: 286 <221> NAME/KEY: MISC_FEATURE 287 <222> LOCATION: (19)..(21) 288 <223> OTHER INFORMATION: X=any amino acid 291 <220> FEATURE: 292 <221> NAME/KEY: MISC_FEATURE 293 <222> LOCATION: (23)..(23) 294 <223> OTHER INFORMATION: X=any amino acid 297 <400> SEQUENCE: 8 W--> 299 Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa 300 1 5 10 W--> 303 Xaa His Xaa Xaa Xaa Cys Xaa Cys 304 307 <210> SEQ ID NO: 9 308 <211> LENGTH: 4 309 <212> TYPE: PRT C--> 310 <213> ORGANISM: Artificial W--> 312 <220> FEATURE: W--> 312 <223> OTHER INFORMATION: 312 <400> SEQUENCE: 9 314 Cys Arg Cys Pro 315 1 318 <210> SEQ ID NO: 10 319 <211> LENGTH: 4 320 <212> TYPE: PRT C--> 321 <213> ORGANISM: Artificial 323 <220> FEATURE: 324 <221> NAME/KEY: MISC_FEATURE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/067,122A

25

25

RAW SEQUENCE LISTING DATE: 07/19/2002
PATENT APPLICATION: US/10/067,122A TIME: 14:11:12

Input Set : A:\iu-0008.ST25.txt

Output Set: N:\CRF3\07192002\J067122A.raw

- 325 <222> LOCATION: (2)..(2)
 326 <223> OTHER INFORMATION: X=any amino acid
 329 <400> SEQUENCE: 10

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 332 1
 335 <210> SEQ ID NO: 11
 336 <211> LENGTH: 25
 337 <212> TYPE: DNA

 C--> 338 <213> ORGANISM: Artificial

 W--> 340 <220> FEATURE:
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 340 <400> SEQUENCE: 11
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 344 <210> SEQ ID NO: 12
- C--> 347 <213> ORGANISM: Artificial
- W--> 349 <220> FEATURE:
- W--> 349 <223> OTHER INFORMATION:

345 <211> LENGTH: 25 346 <212> TYPE: DNA

- 349 <400> SEQUENCE: 12
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- 353 <210> SEQ ID NO: 13
- 354 <211> LENGTH: 11
- 355 <212> TYPE: PRT
- 356 <213> ORGANISM: Mus musculus
- 358 <400> SEQUENCE: 13
- 360 Cys Arg Pro Gly Gln Glu Leu Thr Lys Gln Gly
- 361 1 5

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/19/2002 PATENT APPLICATION: US/10/067,122A TIME: 14:11:13

Input Set : A:\iu-0008.ST25.txt

Output Set: N:\CRF3\07192002\J067122A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1253,1254,1255

Seq#:6; Xaa Pos. 5

Seq#:8; Xaa Pos. 2,3,5,6,7,8,9,10,11,12,13,15,16,17,19,20,21,23

Seq#:10; Xaa Pos. 2

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:7,8,9,10,11,12

Use of <220> Feature(NEW RULES):

Sequence(s)_are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32) (Sec.1.823 of new Rules)

Seq#:7,9,11,12

VERIFICATION SUMMARYDATE: 07/19/2002PATENT APPLICATION: US/10/067,122ATIME: 14:11:13

Input Set : A:\iu-0008.ST25.txt

Output Set: N:\CRF3\07192002\J067122A.raw

L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1200 L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0 L:254 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7 L:256 M:258 W: Mandatory Feature missing, <220> FEATURE: L:256 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:265 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8 L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0 L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:16 L:310 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9 L:312 M:258 W: Mandatory Feature missing, <220> FEATURE: L:312 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:321 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10 L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0 L:338 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEO ID#:11 L:340 M:258 W: Mandatory Feature missing, <220> FEATURE: L:340 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:347 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12 L:349 M:258 W: Mandatory Feature missing, <220> FEATURE:

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